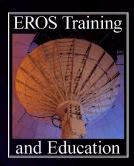


How to Use TerraLook Collections

An Introduction to Viewing and Analyzing TerraLook Images



U.S. Department of the Interior U.S. Geological Survey

Learning Objectives

- After completing this module the student should be able to:
 - open a TerraLook Collection
 - open and compare TerraLook images
 - add vector information from a shapefile
 - interpret images and save the interpretation as a shapefile
 - annotate TerraLook images
 - save images as graphics
 - use "Help"

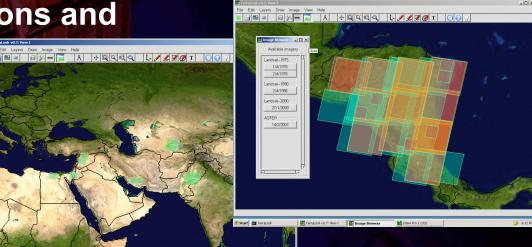


Overview

- TerraLook Collections are designed for use in documenting changes to the Earth's surface.
- The TerraLook Collections and Software are available at no cost.
- The TerraLook Software "understands"

TerraLook collections and

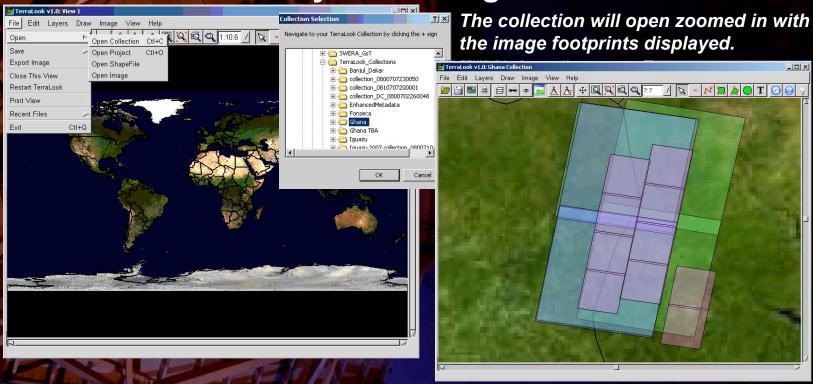
makes it easy to compare and interpret images.





Opening a TerraLook Collection

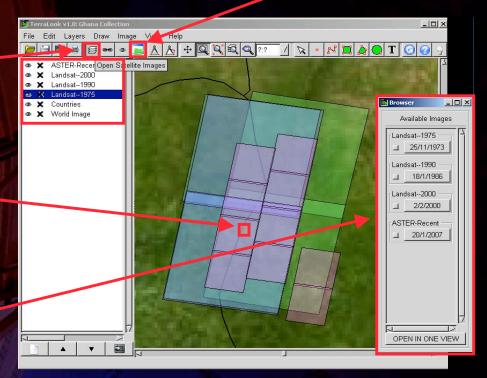
- Open a Collection by going to "Open > Open Collection."
- Select the directory containing the collection.





Finding Images in Collection

- Confirm that the "Open Satellite Images" icon is selected.
- Use the toggle layer manager icon to turn layers on and off.
- Click on a location of interest and a "Browser" window to open a listing all of the images covering that point.



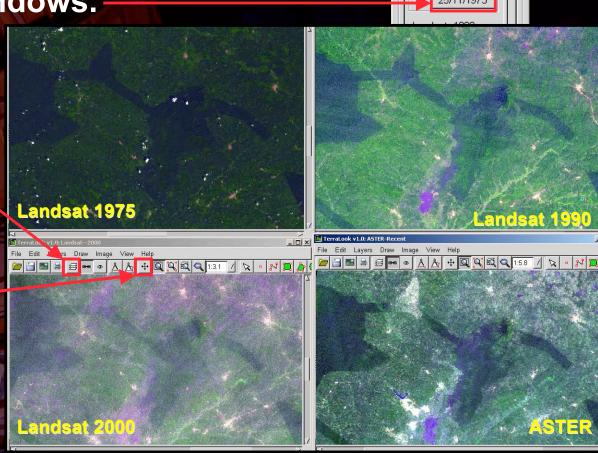


Opening/Comparing Images Using Link

Click on a date to open images in date-specific windows.



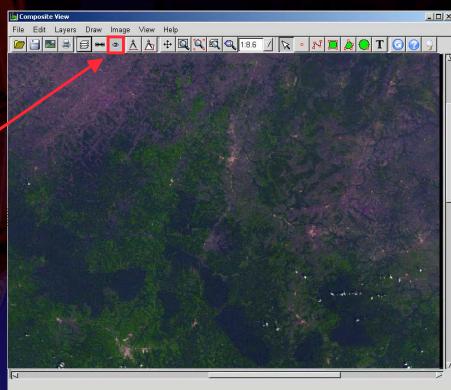
- Click on zoom icon to enlarge images





Comparing Images with Composite View

- Flicker images using Composite View window
 - In the browse window, select images by clicking in small check boxes.
 - Click on "Open in One View" to open the Composite View.
 - The flicker tool is automatically selected.
 - Right click in the Composite View window to change dates.





20/1/2007

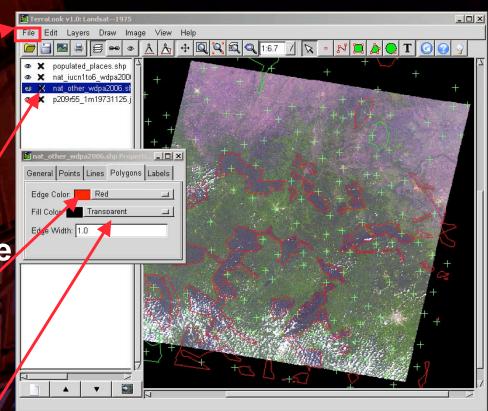
OPEN IN ONE VIEW

Adding Existing Vector Information

Display protected area and city shapefiles by going to "File > Open Shapefile."

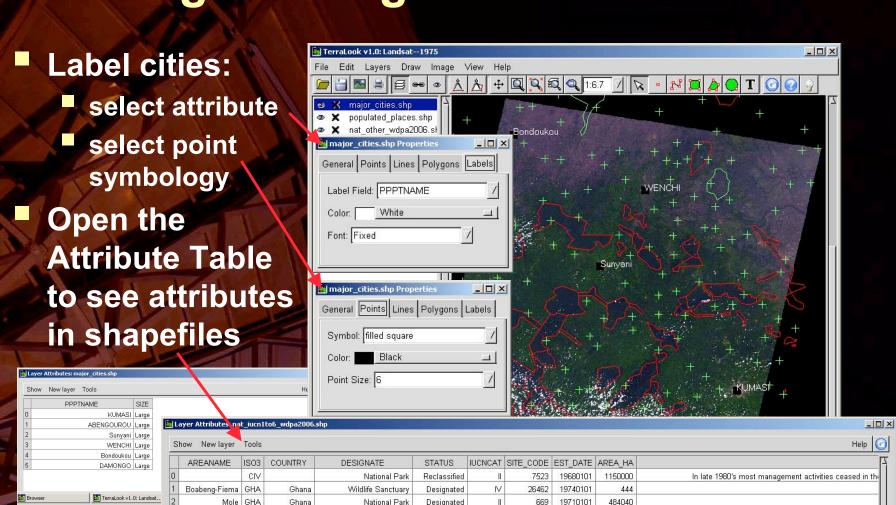
Right click on the layer name to change symbology.

Change the color of polygon boundaries and make polygons transparent.





Labeling Existing Vector Information



Designated

National Park

182060

7800

22800

19740101

19740101



Bia GHA

Creating a New Vector Layer

18/1/1986

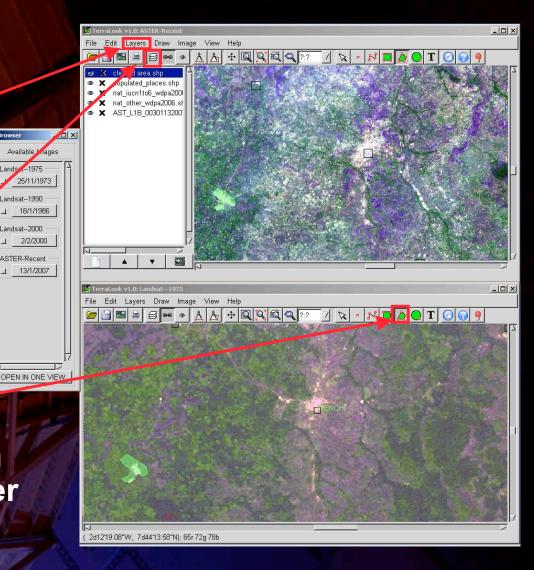
⊒ 2/2/2000

⊥ 13/1/2007

Go to "Layers > **Create New Layer"** to create a new layer

Toggle the layer manager icon 🛢 to change the name of the new layer

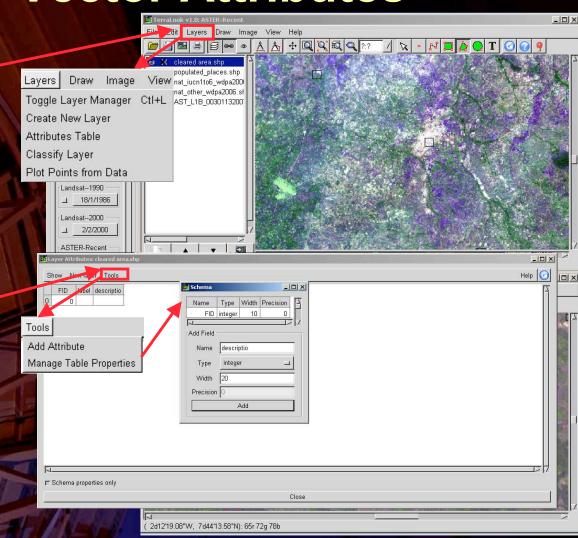
Use the polygon icon 🍐 to add new polygon data to the new layer







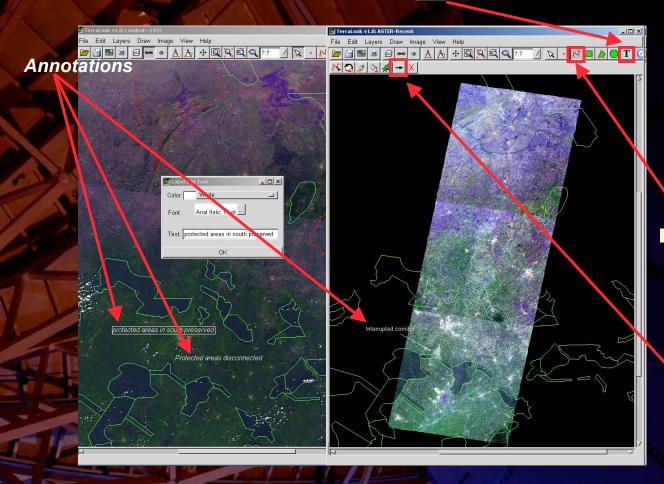
- Use "Layers > Attributes Table" to add information
- Go to "Tools > Manage Table Properties" to add fields
- Click inside the table to add values





Annotating Images

Use the annotate icon to place text on the images.



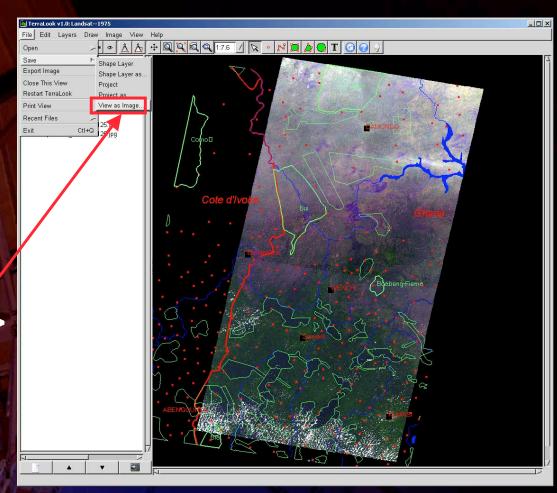


Arrows can be inserted by using first the line tool, then the make arrowhead tool.



Saving Images as Graphics

- Use the layer manager to
 - select,
 - label,
 - symbolize, and
 - order layers.
- Go to "File > Save > View as Image" or click on the icon. ■
- The image will be saved as a JPEG.





Using Help Documentation

For assistance, go to the "Help > TerraLook Help" menu.



? Help

A Collection is a group of images in a particular format. TerraLook provides quick access to these images, according to the year of satellite sensor used. Don't have a Collection? Download one from http://asterweb.jpl.nasa.gov/paa. You can access this we Help->Webpage menu entry. Note that Collections are generally large and so may be difficult to download without a fast internet conne ASTER team that operates the site, they move be able to send the collection out on CD or DVD. Starting sometime in early 2007, this in the official site to be operated by the US Geological Survey.

Quick Start Guide

Opening a Collection
Adding Layers
Creating and Editing Shapes
Adding Labels
Measuring Distance and Area
Plot Points from Data
Saving Work
Printing
Terral.ook Screencasts (online soon!)

About TerraLook

About the TerraLook Project
Installing TerraLook
TerraLook Collections and Satellite Senso

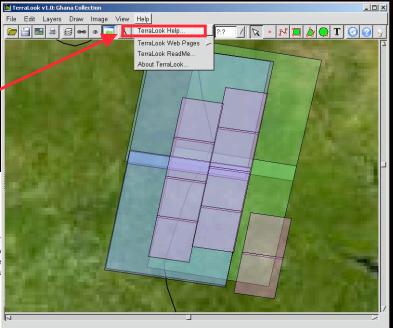
Using TerraLook

The User Interface

Menu options
Iconbar tools
Toolbars
Layer Manager
Raster Properties Dialog
Vector Properties Dialog
Point Query Properties Dialog

Interactive Python Shell 3D Views

Setting Application Preferences File Formats Performance Tuning Customization









- Open and compare TerraLook images) (30 Minutes)
- Overlay existing and create new vector data (40 minutes)
- Annotate image and save as graphic (20 minutes))



Open and compare TerraLook

- Open TerraLook Collection
- Open images from multiple epochs
- Link and zoom images
- Use Browser window to select images in multiple epochs and open in composite window
- Flicker through the epochs in the composite window



Overlay vector data

- Open shapefile and turn on layer manager
- Change symbology of shapefile
- Label shapefile
- Open and view the attribute table
- Create new vector layer and edit layer name
- Click on the polygon icon and digitize boundary
- Add attribute to new layer add value





- Add annotation to image
- Draw arrow on image
- Label and symbolize vector data on image
- Save image as JPEG graphic

